

# (cis)-1,1'-(1,2-cyclopropanediyl)bisbenzene

<b>Other names:</b>	cis-1,2-Diphenylcyclopropane
<b>Inchi:</b>	InChI=1S/C15H14/c1-3-7-12(8-4-1)14-11-15(14)13-9-5-2-6-10-13/h1-10,14-15H,11H2/t1
<b>InchiKey:</b>	ZSIYTDQNAOYUNE-GASCZTMLSA-N
<b>Formula:</b>	C15H14
<b>SMILES:</b>	<chem>c1ccc(C2CC2c2ccccc2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	194.27
<b>CAS:</b>	1138-48-3

## Physical Properties

Property code	Value	Unit	Source
chl	-8082.20 ± 0.80	kJ/mol	NIST Webbook
gf	353.28	kJ/mol	Joback Method
hf	172.59	kJ/mol	Joback Method
hfl	179.00 ± 0.80	kJ/mol	NIST Webbook
hfus	21.89	kJ/mol	Joback Method
hvap	53.14	kJ/mol	Joback Method
ie	8.20	eV	NIST Webbook
log10ws	-4.13		Crippen Method
logp	3.958		Crippen Method
mcvol	163.830	ml/mol	McGowan Method
pc	2773.00	kPa	Joback Method
tb	598.03	K	Joback Method
tc	850.80	K	Joback Method
tf	325.35	K	Joback Method
vc	0.616	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	408.95	J/mol×K	598.03	Joback Method
cpg	428.59	J/mol×K	640.16	Joback Method
cpg	446.57	J/mol×K	682.29	Joback Method
cpg	463.05	J/mol×K	724.42	Joback Method
cpg	478.14	J/mol×K	766.55	Joback Method

cpg	491.97	J/mol×K	808.67	Joback Method
cpg	504.67	J/mol×K	850.80	Joback Method
dvisc	0.0018909	Paxs	325.35	Joback Method
dvisc	0.0012846	Paxs	370.80	Joback Method
dvisc	0.0009496	Paxs	416.24	Joback Method
dvisc	0.0007450	Paxs	461.69	Joback Method
dvisc	0.0006105	Paxs	507.14	Joback Method
dvisc	0.0005169	Paxs	552.58	Joback Method
dvisc	0.0004488	Paxs	598.03	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1138483&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1138483&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>chl:</b>	Standard liquid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfl:</b>	Liquid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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